Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa, Orange

STREAM NAME: South Anna River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F01R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 7 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the South Anna River

RIVER MILE: 103.93

LATITUDE: 38.16861 **LONGITUDE:** -78.21556

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Dove Fork

RIVER MILE: 96.93

LATITUDE: 38.08278 **LONGITUDE:** -78.18194

Segment starts at the headwaters of the South Anna River downstream to the confluence of Dove Fork to the South Anna River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002), pH (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (9 of 18 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station 8-SAR097.82 at Route 603 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Sufficient excursions from the pH water quality criteria were recorded at monitoring station 8-SAR097.82 to assess this segment as not supporting of the Aquatic Life Use goal. Two of 16 samples (12.5%) were above the upper range of the pH water quality criteria (6.0 - 9.0 SU) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Additionally, the Aquatic Life Use has an observed effect due to exceedances to the total phosphorus screening level of 0.2 mg/L (11 of 18 samples - 61.1%).

This segment was first listed for a swimming use impairment due to fecal coliform bacteria exceedances in the 2002 303(d) report. A bacteria TMDL is scheduled to be developed by 2010 in accordance with the Consent Decree. The TMDL to address the Aquatic Life Use impairment may extend to 2016.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa

STREAM NAME: South Anna River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F02R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 6.27 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Roundabout Creek

RIVER MILE: 76.32

LATITUDE: 37.95953 **LONGITUDE:** -78.02445

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Beaver Creek

RIVER MILE: 70.05

LATITUDE: 37.94576 **LONGITUDE:** -77.97536

Segment starts at the confluence of Roundabout Creek to the South Anna River downstream to the confluence of Beaver Creek to the South Anna River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 18 samples - 11.1%) were recorded at DEQ's ambient water quality monitoring station 8-SAR070.96 at Route 646 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of the impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover, Louisa

STREAM NAME: Taylors Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F03R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 16.26 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Taylors Creek

RIVER MILE: 16.26

LATITUDE: 37.87083 **LONGITUDE:** -77.82417

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the South Anna River

RIVER MILE: 0.00

LATITUDE: 37.75583 **LONGITUDE:** -77.63028

Segment starts at the headwaters of Taylors Creek downstream to the confluence with the South Anna River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

This stream segment was listed in the 2002 303(d) impaired waters list for fecal coliform bacteria exceedances (3 of 20 samples - 15%) recorded at DEQ's water quality monitoring station (8-TLR002.54) at Route 673. For the 2004 water quality assessment, 2 of 19 samples (10.5%) were recorded at this station.

Additionally, DEQ benthic macroinvertebrate biological monitoring at station 8-TLR014.44 finds this segment to be slightly impaired resulting in a determination of fully supporting with observed effects for the aquatic life use.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Orange

STREAM NAME: Mountain Run

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F06R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.52 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Madison Run

RIVER MILE: 2.52

LATITUDE: 38.17083 **LONGITUDE:** -78.12778

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the North Anna River

RIVER MILE: 0.00

LATITUDE: 38.15139 **LONGITUDE:** -78.09389

Segment begins at the confluence of Madison Run and Mountain Run downstream to its confluence with the North Anna River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 17 samples - 17.6%) were recorded at DEQ's ambient water quality monitoring station 8-MTN000.96 at Route 643 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa, Orange

STREAM NAME: Beaver Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F06R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.51 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Cooks Creek

RIVER MILE: 2.51

LATITUDE: 38.16528 **LONGITUDE:** -78.04861

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the North Anna River

RIVER MILE: 0.00

LATITUDE: 38.14139 **LONGITUDE:** -78.02250

Segment begins at the confluence of Cooks Creek and Beaver Creek, approximately 0.68 rivermiles upstream from the Route 638 bridge, downstream to its confluence with the North Anna River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 21 samples - 19.0%) were recorded at DEQ's ambient water quality monitoring station 8-BRC001.88 at Route 638 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa

STREAM NAME: Goldmine Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F06R-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 7.16 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Goldmine Creek

RIVER MILE: 8.59

LATITUDE: 38.02222 **LONGITUDE:** -77.96472

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Lake Anna

RIVER MILE: 1.43

LATITUDE: 38.10444 **LONGITUDE:** -77.95639

Segment includes all of Gold Mine Creek from the headwaters to the confluence with Lake Anna.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (8 of 22 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station 8-GMC002.19 at Route 613 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa

STREAM NAME: North Fork Hickory Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F06R-04

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 4.82 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of North Fork Hickory

RIVER MILE: 4.82

LATITUDE: 38.07900 **LONGITUDE:** -78.09732

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with South Fork Hickory Creek

RIVER MILE: 0.00

LATITUDE: 38.10764 **LONGITUDE:** -78.04758

Segment begins at the headwaters of North Fork Hickory Creek and continues downstream to the confluence of North Fork Hickory Creek and South Fork Hickory Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004)

This segment was identified in Attachment B of the Consent Decree dated June 11, 1999 (Plaintiff's List of Waters). The basis of the consent decree listing was data collected in the 1990's at DEQ monitoring station 8-HCN000.20 at Route 692. Two of 13 samples (15.4%) were outside of the pH criteria range in samples recorded between July 1, 1992, and June 30, 1997 at station 8-HCN000.20. Monitoring of this station was resumed in late 2003 with one sampling event occuring during the 2004 water quality assessment period. While there is insufficient data to assess this segment for the 2004 water quality assessment, the segment is listed for not supporting the Aquatic Life Use based earlier monitoring data collected by DEQ. The DEQ will continue to monitor this station in order to further evaluate the Aquatic Life Use support.

IMPAIRMENT SOURCE: Unknown

The source of the impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa, Spotsylvania

STREAM NAME: Lake Anna

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F07L-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2512 - Acres

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGITUDE:**

The water quality impairments for Lake Anna are all addressed in this fact sheet. The three separate impairments that were addressed in separate fact sheets in the 2002 303(d) list are now combined into this fact sheet. These include:

1. The lower portion of Lake Anna, beginning near the northern end of the Route 690 bridge downstream to the dam;

2. The Contrary Creek arm of Lake Anna, beginning at the start of the inundated waters of Contrary Creek. The Freshwater Creek arm is not included in the segment;

3. The Gold Mine Creek arm of Lake Anna, beginning at the start of the inundated waters of Gold Mine Creek.

The total acreage of the impairments has been updated for the 2004 water quality assessment to reflect to more accurate measurement tools. The location and description of the segments have not changed since the initial 303(d) listing in 2002.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Not Supporting

IMPAIRMENT CAUSE: Fish Tissue - PCBs (2002)

The three segments discussed below were each assessed as not supporting of the Fish Consumption Use goal for the 2004 water quality assessment.

1. The lower lake impairment is the 1941-acre segment beginning near the northern end of the Route 690 bridge downstream to the dam. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-NAR034.92, approximately 0.5 rivermiles upstream from the dam near Route 622. The TV for PCB's was exceeded in one species (channel catfish) in samples collected in October, 1994, and May, 2000.

2. The Contrary Creek impairment includes the 480-acre Contrary Creek arm of Lake Anna. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-CON003.84. The TV for PCB's was exceeded in two species (channel catfish and carp) in samples collected May 11, 2000.

In addition, the consensus based probable effects concentration (PEC) sediment screeing values for copper (149 ppm, dry weight), lead (128 ppm, dry weight), and zinc (459 ppm, dry weight) were exceeded in sediment samples collected May 11, 2000, at the same station. As a result, this segment was identified with an observed effect for the aquatic life use goal.

3. The Goldmine Creek impairment includes the 91-acre Gold Mine Creek arm of Lake Anna. Exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-GMC001.43. The TV for PCB's was exceeded in two species (striped bass and largemouth bass) in samples collected August 30, 2000.

IMPAIRMENT SOURCE: Unknown

The source of impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Orange

STREAM NAME: Pamunkey Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F07R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 12.14 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Tomahawk Creek and Church Creek, where Pamunkey Creek begins

RIVER MILE: 21.20

LATITUDE: 38.22444 **LONGITUDE:** -78.07167

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Lake Anna

RIVER MILE: 9.06

LATITUDE: 38.14639 **LONGITUDE:** -77.93500

Segment begins at the confluence of Tomahawk Creek and Church Creek, where Pamunkey Creek begins, and continues downstream to the confluence with Lake Anna.

The lower portion of this segment, from the confluence of Clear Creek with Pamunkey Creek downstream to the lake, was listed in the 1998 303(d) report. The upstream portion was added to the 1998 303(d) listed segment because of an additional monitoring station established on Pamunkey Creek at Route 630 (rivermile 14.75).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998/2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion were recorded at DEQ's water quality monitoring stations at Route 651 (8-PMC009.85) and Route 630 (8-PMC014.75) to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment. Six of 18 samples (33.3%) exceeded the instantaneous fecal bacteria criterion at station 8-PMC009.85; two of 13 samples (15.4%) exceeded the criterion at station 8-PMC014.75.

Note that two sampling events were conducted during the assessment period at DEQ water quality monitoring station 8-PMC013.60 at Route 669. There were no bacteria exceedances in either of the two sampling events. However, the entire segment remains impaired and will be studied in more detail as part of the TMDL development.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Orange

STREAM NAME: Terrys Run

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F07R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 5.45 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence with Horsepen Branch

RIVER MILE: 8.91

LATITUDE: 38.23083 **LONGITUDE:** -77.89806

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Lake Anna

RIVER MILE: 3.46

LATITUDE: 38.16861 **LONGITUDE:** -77.91611

Segment starts at the confluence of Horsepen Branch with Terrys Run and continues downstream to the confluence of Terrys Run with Lake Anna.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform - 1.83 miles (1998), Dissolved Oxygen - 3.62 miles (2002)

The listing of this segment is based data from DEQ's ambient monitoring station 8-TRY004.98 at Route 629, and the special study station 8-TRY006.72 at Route 624. The monitoring data from these stations revealed the following during the 2004 water quality assessment period:

1) Not supporting of the Recreation Use goal due to exceedances of the instantaneous fecal coliform bacteria criterion. Six of 18 samples (33.3%) exceeded the criterion at station 8-TRY004.98. The segment is considered not supporting of the Recreation Use use in the 1.83-mile reach beginning at the confluence of Riga Run to Terrys Run and continuing downstream to the confluence of Terrys Run to Lake Anna.

2) Not supporting of the Aquatic Life Use goal due to excursions from the dissolved oxygen criteria at station 8-TRY006.72. Two of 13 samples (15.4%) were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The segment is considered not supporting of the Aquatic Life Use in the 3.62-mile reach beginning at the confluence of Horsepen Branch to Terrys Run continuing downstream to the confluence of Riga Run to Terrys Run.

Note that the entire segment was included in the 1998 303(d) report for partially supporting the swimming use due to fecal coliform bacteria exceedances. The special study monitoring station 8-TRY006.72 was established based on the 1998 303(d) listing of this segment. The bacteria TMDL for this segment must be developed by 2010 in accordance with the Consent Decree. The TMDL to address the Aquatic Life Use impairment may extend to 2014.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of impairments is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Spotsylvania

STREAM NAME: Plentiful Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F07R-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.15 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 4.94

LATITUDE: 38.17583 **LONGITUDE:** -77.84333

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Lake Anna

RIVER MILE: 1.79

LATITUDE: 38.14750 **LONGITUDE:** -77.85917

Segment begins at the confluence of an unnamed tributary to Plentiful Creek, upstream from the Route 601 bridge, and continues downstream to the confluence with Lake Anna.

The 1998 303(d) list identified a 4.94-mile segment length for Plentiful Creek. This mileage included the inundated waters of Lake Anna in the Plentiful Creek arm of the lake. The current segment size only accounts for the free-flowing portion of Plentiful Creek and does not include the inundated waters of Lake Anna.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (1998)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 19 samples - 21.1%) were recorded at DEQ's ambient water quality monitoring station 8-PLT002.82 at Route 653 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Orange

STREAM NAME: Tomahawk Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F07R-04

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.25 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Tomahawk Creek

RIVER MILE: 3.25

LATITUDE: 38.22727 **LONGITUDE:** -78.11944

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Church Run

RIVER MILE: 0.00

LATITUDE: 38.22444 **LONGITUDE:** -78.07167

Segment begins at the headwaters of Tomahawk Creek downstream to the confluence with Church Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's water quality monitoring station 8-THK000.09 at Route 612 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Louisa

STREAM NAME: Contrary Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAN-F08R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 5.49 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Contrary Creek

RIVER MILE: 9.33

LATITUDE: 38.02444 **LONGITUDE:** -77.92194

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Lake Anna

RIVER MILE: ~3.84

LATITUDE: 38.06333 **LONGITUDE:** -77.85806

Segment begins at the headwaters of Contrary Creek and continues downstream to the confluence with Lake Anna.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2002)

Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-CON005.38) at the Route 522 bridge to assess this segment as not supporting of the Aquatic Life Use goal in the 2004 water quality assessment. Seventeen (17) of 18 samples (94.4%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. Additionally, observed effects for the Aquatic Life Use were noted with exceedances of the acute copper and zinc water quality criteria (1 of 1 sample each) measured in samples collected in July, 1998.

IMPAIRMENT SOURCE: Resource Extraction/Abandoned mining

Resource Extraction/Abandoned mining

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, Spotsylvania

STREAM NAME: Ni River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F15R-01

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 5.42 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an Unnamed Tributary

RIVER MILE: 5.42

LATITUDE: 38.18519 **LONGITUDE:** -77.52684

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Po River

RIVER MILE: 0.00

LATITUDE: 38.14326 **LONGITUDE:** -77.46326

Segment begins at the confluence of an unnamed tributary to the Ni River, approximately 0.95 rivermiles downstream from the Route 608 bridge, and continues downstream to its confluence with the Po River to form the Poni River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004)

Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-NIR003.96) at the Route 1 bridge to assess this segment as not supporting of the Aquatic Life Use goal. Five (5) of 31 samples (16.1%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of pH impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Spotsylvania

STREAM NAME: Po River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F16R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.06 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Whitehall Creek

RIVER MILE: 22.40

LATITUDE: 38.24583 **LONGITUDE:** -77.70333

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Wrights Pond

RIVER MILE: 20.34

LATITUDE: 38.22083 **LONGITUDE:** -77.67583

Segment begins at the confluence of Whitehall Creek with the Po River and continues downstream to the start of Wrights Pond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 18 samples - 22.2%) were recorded at DEQ's ambient water quality monitoring station 8-POR022.56 at Route 612 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Spotsylvania

STREAM NAME: Po River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F16R-02

ASSESSMENT CATEGORY: 5A/5C

SEGMENT SIZE: 7.38 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Glady Run

RIVER MILE: 14.07

LATITUDE: 38.18836 **LONGITUDE:** -77.64209

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 6.69

LATITUDE: 38.16004 **LONGITUDE:** -77.55913

Segment begins at the confluence of Glady Run with the Po River and continues downstream to the confluence of an unnamed tributary to the Po River at rivermile 6.69, near the upstream boundary of the Old Trap development.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004), Fecal Coliform (2004)

Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-POR008.97) at the Route 208 bridge to assess this segment as not supporting of the Aquatic Life Use goal. Four (4) of 33 samples (12.1%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 33 samples - 12.1%) were recorded at station 8-POR008.97 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions, Unknown

The source of pH impairment is unknown, but is believed to be attributable to natural conditions. The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Spotsylvania

STREAM NAME: Ta River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F18R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.27 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Bluff Run

RIVER MILE: 3.27

LATITUDE: 38.13806 **LONGITUDE:** -77.62167

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Mat River

RIVER MILE: 0.00

LATITUDE: 38.11667 **LONGITUDE:** -77.58639

Segment begins at the confluence of Bluff Run to Ta River, approximately 0.7 rivermiles upstream of Route 738, downstream to its confluence with Mat River (to form Matta River).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 19 samples - 21.1%) were recorded at DEQ's water quality monitoring station (8-TAR002.40) at Route 738 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, two of 18 samples (11.1%) exceeded the total phosphorus screening value of 0.20 mg/L resulting in an assessment of fully supporting with an observed effect for the Aquatic Life use goal.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, Spotsylvania

STREAM NAME: Matta River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F18R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 11.14 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 11.14

LATITUDE: 38.10794 **LONGITUDE:** -77.57626

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Poni River

RIVER MILE: 0.00

LATITUDE: 38.11284 **LONGITUDE:** -77.43613

Segment begins at the confluence of an unnamed tributary to Matta River, approx. 0.5 rivermiles upstream from the Route 646 bridge, downstream to its confluence to the Poni River forming the Mattaponi River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 35 samples - 14.3%) were recorded at DEQ's water quality monitoring station (8-MTA001.69) at Route 632 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

Additionally, DEQ benthic macroinvertebrate biological monitoring finds this segment to be slightly impaired resulting in a determination of fully supporting with observed effects for the Aquatic Life use goal.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline

STREAM NAME: South River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F19R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.25 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of White Run

RIVER MILE: 4.98

LATITUDE: 38.05385 **LONGITUDE:** -77.45132

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Mays Run

RIVER MILE: 1.73

LATITUDE: 38.04101 **LONGITUDE:** -77.40726

Segment begins at the confluence of White Run to South River, approximately 0.6 rivermiles upstream of Rt. 638, and continues downstream to the confluence with Mays Run at rivermile 1.73.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2004)

Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's water quality monitoring station (8-STH004.37) at Route 638 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unknown

The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline

STREAM NAME: Polecat Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F20R-01

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 6.63 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Hackett Creek

RIVER MILE: 6.63

LATITUDE: 37.97198 **LONGITUDE:** -77.43396

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence to Mattaponi River

RIVER MILE: 0.00

LATITUDE: 37.96105 **LONGITUDE:** -77.33368

Segment begins at the confluence of Hackett Creek to Polecat Creek, approximately 0.5 rivermiles upstream of Route 207, downstream to its confluence to Mattaponi River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2004)

Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-PCT002.29) at the Route 601 bridge to assess this segment as not supporting of the Aquatic Life Use goal. Five (5) of 35 samples (14.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH. One of seven samples was below the lower range of the pH criteria at citizen monitoring station 8PCT-SR20-MPRA at Rt. 301.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of pH impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Herring Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F21R-01

ASSESSMENT CATEGORY: 5A/5C

SEGMENT SIZE: 4.81 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Dorrell Creek

RIVER MILE: 7.04

LATITUDE: 37.84917 **LONGITUDE:** -77.19139

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Herring Creek Millpond

RIVER MILE: 2.23

LATITUDE: 37.80944 **LONGITUDE:** -77.14333

Segment starts at the confluence of Dorrell Creek with Herring Creek and continues to the start of Herring Creek Millpond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform (2002), pH (2002)

The sampling data from DEQ monitoring station (8-HER005.12) at the Route 609 bridge revealed the following for this stream segment during the 2004 water quality assessment period:

1) Not supporting of the Recreation Use goal due to sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 19 samples - 21%);

2) Not supporting of the Aquatic Life Use goal due to excursions from the pH water quality criteria. Thirteen (13) of 17 samples (76.5%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

The Aquatic Life Use impairment is subject to the schedule of the consent decree. Accordingly, a TMDL and/or evaluation of the water quality standard is scheduled to be completed by 2010. The TMDL to address the Recreation Use impairment may extend to 2014.

IMPAIRMENT SOURCE: Unknown, Unconfirmed Natural Conditions

The source of pH impairment is unknown, but is believed to be attributable to natural conditions. The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, King and Queen, King William

STREAM NAME: Mattaponi River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F21R-02

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 8.15 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Maracossic Creek

RIVER MILE: 57.37

LATITUDE: 37.89167 **LONGITUDE:** -77.18139

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Gravel Run

RIVER MILE: 49.22

LATITUDE: 37.86611 **LONGITUDE:** -77.13556

Segment begins at the confluence of Maracossic Creek and continues downstream to the confluence of Gravel Run to the Mattaponi River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2002)

DEQ monitoring station 8-MPN054.17 and USGS station 01674500 are co-located on the Mattaponi River at the Rt. 628 bridge. This station was sampled by both agencies through mid-2003 at which time DEQ ceased monitoring activities to eliminate duplicated efforts at this location.

DEQ monitoring data from this station was used as the basis for an Aquatic Life Use impairment listed in the 2002 303(d) report due to excursions from the pH criteria. For the 2002 assessment period between 1/1/1996 and 12/31/2000, ten (10) of 53 samples (18.9%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

For the 2004 assessment period, the combination of DEQ and USGS data indicate that thirteen (13) of 178 samples (7.3%) were below the lower range (6.0 SU) of the pH water quality criteria indicating full support of the Aquatic Life Use goal. DEQ will not petition to have this segment removed from the 303(d) impaired waters list as unconfirmed USGS monitoring data support the impairment. These data, once finalized, will be evaluated as part of the 2006 water quality assessment.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of pH impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline

STREAM NAME: Reedy Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F21R-03

ASSESSMENT CATEGORY: 5A/5C

SEGMENT SIZE: 12.4 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Reedy Creek

RIVER MILE: 13.62

LATITUDE: 37.94139 **LONGITUDE:** -77.46417

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Reedy Millpond

RIVER MILE: 1.22

LATITUDE: 37.89583 **LONGITUDE:** -77.30444

Segment begins at the headwaters of Reedy Creek downstream to the start of Reedy Millpond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: pH (2002), Fecal Coliform (2004)

Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-RDY003.43) at the Route 648 bridge to assess this segment as not supporting of the Aquatic Life Use goal. Thirteen (13) of 16 samples (81.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

Additionally, sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 17 samples - 11.8%) were recorded at station 8-RDY003.43 to assess this stream segment as not supporting of the Recreation Use goal for the 2004 water quality assessment.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions, Unknown

The source of pH impairment is unknown, but is believed to be attributable to natural conditions. The source of fecal coliform bacteria exceedances is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, King and Queen

STREAM NAME: Maracossic Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAN-F22R-01

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 4.32 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Doctors Creek

RIVER MILE: 7.94

LATITUDE: 37.95667 **LONGITUDE:** -77.22167

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Beverly Run

RIVER MILE: 3.62

LATITUDE: 37.91889 **LONGITUDE:** -77.18222

Segment begins at the confluence of Doctors Creek to Maracossic Creek downstream to its confluence with Beverly Run, approximately 0.66 rivermiles downstream of Route 646.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH (2002)

Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MAR004.41) at the Route 646 bridge to assess this segment as not supporting of the Aquatic Life Use goal. Four (4) of 18 samples (22.2%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards. The pH excursions may be attributable to natural conditions as this segment is a low-lying Coastal Plain environment with no riffles and slow moving pools that are subject to low pH.

IMPAIRMENT SOURCE: Unconfirmed Natural Conditions

The source of pH impairment is unknown, but is believed to be attributable to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: South Anna River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F04R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 22.22 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Taylors Creek

RIVER MILE: 22.52

LATITUDE: 37.75570 **LONGITUDE:** -77.63060

DOWNSTREAM LIMIT:

DESCRIPTION: Ashland Municipal STP

RIVER MILE: 4.83

LATITUDE: 37.80850 **LONGITUDE:** -77.47140

The South Anna River from Taylors Creek downstream to the Ashland Municipal STP discharge near the confluence with Falling Creek. Includes PWS Section 8-3a.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The South Anna River from Route 33 to the Ashland Municipal STP was assessed as fully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired. The TMDL is due in 2014. During the 2004 cycle, the fecal coliform violation rate was 5/19 at the Route 33 bridge (8-SAR021.22).

IMPAIRMENT SOURCE: Unknown

The source is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, Hanover

STREAM NAME: South Anna River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F04R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 4.63 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2008

UPSTREAM LIMIT:

DESCRIPTION: Ashland Municipal STP discharge

RIVER MILE: 4.83

LATITUDE: 37.80850 **LONGITUDE:** -77.47140

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.80310 **LONGITUDE:** -77.40820

The South Anna River from the Ashland Municipal STP near the confluence with Falling Creek downstream to its mouth.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was initially listed as impaired during the 1998 cycle. During the 2004 cycle, the fecal coliform violation rate was 9/48 at the Route 738 bridge (8-SAR001.11). The TMDL is due in 2010.

IMPAIRMENT SOURCE: Unknown

The source is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: Newfound River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F05R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 10.61 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Needstan Creek

RIVER MILE: 10.60

LATITUDE: 37.85630 **LONGITUDE:** -77.59560

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.80980 **LONGITUDE:** -77.49480

Newfound River from the confluence of Needstan Creek to its mouth.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The segment was assessed not supporting of the Recreation Use based on a fecal coliform violation rate of 5/18 at the Route 667 bridge (8-NFD002.26).

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Spotsylvania

STREAM NAME: Northeast Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F09R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 1.04 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Tributary upstream of Route 622.

RIVER MILE: 4.46

LATITUDE: 38.04630 **LONGITUDE:** -77.69430

DOWNSTREAM LIMIT:

DESCRIPTION: Tributary downstream of Route 622.

RIVER MILE: 2.05

LATITUDE: 38.03350 **LONGITUDE:** -77.69510

Northeast Creek as noted around the Route 622 bridge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen (2002), pH (2004), Fecal Coliform

During the 2002 cycle, the segment was assessed not supporting of the Aquatic Life and Recreation Uses because of dissolved oxygen and fecal coliform impairments at the Route 622 bridge (8-NST003.46). The TMDL for these impairments would be due in 2014. In 2004, the segment was also assessed for pH. This TMDL would be due in 2016.

IMPAIRMENT SOURCE: Unknown

The source of the dissolved oxygen and pH violations is unknown but is suspected to be caused by natural conditions during low-flow periods. The source of the fecal coliform is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover, King William

STREAM NAME: Mechumps Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F12R-02

ASSESSMENT CATEGORY: 5A, 5C

SEGMENT SIZE: 5.53 - Miles

INITIAL LISTING: 1994 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Confluence with Slayden Creek

RIVER MILE: 5.69

LATITUDE: 37.75020 **LONGITUDE:** -77.40790

DOWNSTREAM LIMIT:

DESCRIPTION: Pamunkey River confluence

RIVER MILE: 0.00

LATITUDE: 37.76650 **LONGITUDE:** -77.33780

Mechumps Creek from its confluence with Slayden Creek to the Pamunkey River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: pH, Fecal Coliform

Sufficient pH violations were recorded at DEQ's Ambient Monitoring Station 8-MCP002.42, located at the Route 301 bridge, to assess this stream as partially supporting the Clean Water Act's Aquatic Life Use goal for the 1994 305(b) report.

The segment was similarly assessed this cycle based on a pH violation rate of 5/43 at 8-MCP002.42 and 2/5 at 8-MCP005.64.

The segment was assessed not supporting of the Recreation use support goal based on a fecal coliform standard violation rate of 6/34 at 8-MCP002.42.

IMPAIRMENT SOURCE: Natural Conditions, Unknown

The source of the fecal coliform impairment in this segment is currently unknown.

Targeted monitoring in 2002 indicates that Mechumps Creek upstream of Slayden has acceptable pH violation rates. However, Slayden Creek itself and the small tributaries feeding Mechumps and Slayden show significant pH violations and are most likely the contributing source to the pH violations in Mechumps Creek (see VAP-F12R-04).

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Caroline, Hanover, King William

STREAM NAME: Hornquarter Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F12R-03

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 6.59 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 6.59

LATITUDE: 37.82380 **LONGITUDE:** -77.34020

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.75400 **LONGITUDE:** -77.31130

All of mainstem Hornquarter Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Evaluated not supporting of the Aquatic Life use support goal based on a pH standard violation rate of 2/4 during the 2002 cycle at the Route 614 bridge (8-HQT002.12). The station was discontinued in 1996.

IMPAIRMENT SOURCE: Natural Conditions

The source of the pH violations is attributed to natural swampwater conditions in the watershed.

Targeted monitoring and wetland delineation may be necessary to identify the limits of the segment affected by natural conditions. Such segments shall be reclassified as wetlands where appropriate.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: Slayden Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F12R-04

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 4.52 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 4.52

LATITUDE: 37.77300 **LONGITUDE:** -77.47180

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Mechumps Creek

RIVER MILE: 0.00

LATITUDE: 37.75020 **LONGITUDE:** -77.40790

Slayden Creek from its headwaters to its mouth at Mechumps Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

TMDL monitoring in the Mechumps watershed indicated widespread pH violations throughout Slayden Creek:

5/5 at 8-SLD000.06
5/5 at 8-SLD002.15
1/1 at multiple streamwalk stations

IMPAIRMENT SOURCE: Natural Conditions

The source of the pH conditions is attributed to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William, New Kent

STREAM NAME: Pamunkey River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13E-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 10.71 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Extent of tide at Totopotomoy Creek

RIVER MILE: 60.22

LATITUDE: 37.68550 **LONGITUDE:** -77.20900

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.52290 **LONGITUDE:** -76.79960

From the extent of tide at Totopotomoy Creek to the mouth.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen, Estuarine bioassessments, Chloride, Estuarine bioassessments

The segment was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. Estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

In the 2004 cycle, the segment from Sweet Hall Landing to the mouth (4.44 sq. mi.) was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.

In the 2004 cycle, the segment from the mesohaline boundary to the mouth (0.92 sq. mi.) was assessed as not supporting of the Aquatic Life use based on the results of the Chesapeake Bay Benthic - Index of Biological Integrity. The TMDL is due in 2016.

IMPAIRMENT SOURCE: Unknown, Natural conditions

Tidal marshes contribute to organic loading resulting in DO depressions and full allocation judgment.

The chloride violations are attributed to natural salinity.

Fact Sheets for Category 5 Waters

The source of the benthic impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover, King William, New Kent

STREAM NAME: Pamunkey River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13E-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 0.84 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Route 654, Pampatike Landing

RIVER MILE: 48.80

LATITUDE: 37.66720 **LONGITUDE:** -77.13670

DOWNSTREAM LIMIT:

DESCRIPTION: Macon Creek

RIVER MILE: 37.31

LATITUDE: 37.59710 **LONGITUDE:** -77.05510

From Pampatike Landing to Macon Creek (the downstream boundary of watershed F13). Nested within VAP-F13E-01.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

The Pamunkey River was initially listed on the 1998 303(d) list as impaired of the Recreation Use goal because of fecal coliform violations at Pampatike Landing (Route 654). EPA also identified the station on their list of "Waters Identified to Virginia for Consideration During Development of the Next Listing Cycle." This inclusion was probably in error as the segment was already 303(d) listed.

During the 2004 assessment cycle, the segment continues to be impaired of the Swimming use goal with a fecal coliform violation rate of 5/47 at Pampatike Landing (8-PMK048.80).

IMPAIRMENT SOURCE: Unknown

The source of the impairment is considered unknown.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover, King William, New Kent

STREAM NAME: Matadequin Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-01

ASSESSMENT CATEGORY: 5A, 5C

SEGMENT SIZE: 11.39 - Miles

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2004

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 11.39

LATITUDE: 37.63800 **LONGITUDE:** -77.29170

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.62670 **LONGITUDE:** -77.12390

Headwaters to mouth

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: pH, Fecal Coliform

Matadequin Creek from Parsleys Creek to its mouth was assessed in 1998 as impaired of the Aquatic Life use support goal based on pH standard violations at the Route 606 bridge (8-MDQ001.58). During the 2004 cycle, TMDL monitoring indicated pH impairment further upstream and the pH impairment was extended to the headwaters (miles). The TMDL for the original segment is due in 2010; the TMDL for the upstream portion is due in 2016.

Matadequin Creek from Parsleys Creek to its mouth (5.01 miles) was assessed in 1998 as fully supporting but threatened of the Recreation use goal. In 2002, the segment was downgraded to impaired and the fecal coliform TMDL is due in 2014. The segment continues to be impaired of the Recreation use goal based on a fecal coliform standard violation rate of 8/33 at 8-MDQ001.37 in the 2004 cycle.

IMPAIRMENT SOURCE: Natural Conditions, Unknown

The source of the fecal coliform impairment is considered unknown.

The pH impairment is attributed to natural conditions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: Totopotomoy Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 9.6 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Strawhorn Creek

RIVER MILE: 9.60

LATITUDE: 37.65140 **LONGITUDE:** -77.32740

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.68550 **LONGITUDE:** -77.20950

Strawhorn Creek to the Pamunkey River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform, Unknown

Totopotomoy Creek was assessed not supporting of the Recreation Use goal based on a fecal coliform violation rate of 3/23 at the Route 606 bridge (8-TPT004.37). The segment was initially listed in 2002, therefore the fecal coliform TMDL is due in 2014.

In the 2004 cycle, the segment was also assessed as not supporting the Aquatic Life use due to a pH violation rate of 4/22 at 8-TPT004.37. The pH TMDL is due in 2016.

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform and pH violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Jacks Creek and major tributaries

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-03

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 22.99 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 8.50

LATITUDE: 37.69280 **LONGITUDE:** -77.10170

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.60240 **LONGITUDE:** -77.06220

Jacks Creek, Acquinton Creek, and Mallory Creek in their entirety.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen

The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen violations at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study:
DO 1/1 at 8-ACQ008.01;
DO 1/1 at 8-ACQ001.35;
DO 1/1 at 8-MLY001.58.

The TMDL is due in 2014.

During the 2004 cycle, the violation rate was 5/19 at 8-JKC004.15, so the segment remains impaired.

IMPAIRMENT SOURCE: Natural Conditions

Natural conditions suspected in both streams

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Moncuin Creek, Webb Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-04

ASSESSMENT CATEGORY: 5A, 5C

SEGMENT SIZE: 11.83 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Webb Creek

RIVER MILE: 6.09

LATITUDE: **LONGITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Swamp at river mile 2.0

RIVER MILE: 2.00

LATITUDE: 37.68780 **LONGITUDE:** -77.14180

From the headwaters of Webb Creek downstream to the swampy area around river mile 2.0.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Su`pporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: pH, Fecal Coliform

In 1998, the Moncuin Creek was assessed as fully supporting but threatened of the Recreation use because of fecal coliform violations at the Route 618 bridge.

In the 2002 cycle, the segment was extended to incorporate the station on Webb Creek and was assessed not supporting of the Aquatic Life and Recreation Uses because of fecal coliform and pH exceedances. The TMDLs are due in 2014.

Fecal coliform 2/17 at 8-MNQ004.19 (Rt. 618)
pH 7/184 at the 8-MNQ004.19;
pH 1/1 at 8-WEB002.00 (1995 study)

IMPAIRMENT SOURCE: Natural Conditions, Unknown

Natural conditions suspected source of pH violations;
The fecal coliform source is unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: New Kent

STREAM NAME: Black Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-05

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.61 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Southern Branch Clompton Swamp

RIVER MILE: 2.61

LATITUDE: 37.57260 **LONGITUDE:** -77.09110

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.59480 **LONGITUDE:** -77.07960

Black Creek downstream of the first major upstream tributary.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

Not supporting of the Recreation Use because of fecal coliform exceedances (5/18) at the Route 608 bridge (8-BLC001.77).

IMPAIRMENT SOURCE: Unknown

Source is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Sullens Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-06

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.68 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Pond at Etna Mills

RIVER MILE:

LATITUDE: 37.75890 **LONGITUDE:** -77.26280

DOWNSTREAM LIMIT:

DESCRIPTION: Mehixen Creek

RIVER MILE:

LATITUDE: 37.73100 **LONGITUDE:** -77.25340

Sullens Creek from the pond at Etna Mills downstream to the confluence with Mehixen Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use goal based on a pH violation rate of 2/2 at the Route 652 bridge (8-SLN001.46).

IMPAIRMENT SOURCE: Unknown

The source of the violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: Parsleys Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-07

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 6.07 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 6.07

LATITUDE: 37.59380 **LONGITUDE:** -77.26980

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Matadequin Creek

RIVER MILE: 0.00

LATITUDE: 37.62250 **LONGITUDE:** -77.19040

The mainstem of Parsleys Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use goal because of the following pH violation rates:

1/1 at 8-PRS000.01
3/4 at 8-PRS001.96
3/4 at 8-PRS002.81
1/1 at 8-PRS003.35

IMPAIRMENT SOURCE: Unknown

The source of the violations is considered unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Hanover

STREAM NAME: Sandy Valley Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-08

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 4.03 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 4.03

LATITUDE: 37.61820 **LONGITUDE:** -77.29130

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Matadequin Creek

RIVER MILE: 0.00

LATITUDE: 37.62240 **LONGITUDE:** -77.25000

The mainstem of Sandy Valley Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use goal based on a pH violation rate of 4/4 at Matadequin TMDL study station 8-SVC002.31 (Route 635).

IMPAIRMENT SOURCE: Unknown

The source of the violations is considered unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: UT XDX to UT XDW to Pamunkey River

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F13R-09

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.75 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 3.75

LATITUDE: 37.72370 **LONGITUDE:** -77.17130

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Matadequin Creek

RIVER MILE: 0.00

LATITUDE: 37.69240 **LONGITUDE:** -77.20310

The mainstem of unnamed tributary XDX.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

Not supporting of the Recreation Use goal based on a fecal coliform violation rate of 2/3 at the Route 604 (8-XDX000.38).

IMPAIRMENT SOURCE: Unknown

The source of the violations is considered unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Cohoke Mill Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F14R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 5.93 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 8.45

LATITUDE: 37.65910 **LONGITUDE:** -76.99900

DOWNSTREAM LIMIT:

DESCRIPTION: Cohoke Millpond

RIVER MILE: 2.52

LATITUDE: 37.59510 **LONGITUDE:** -76.94240

Mainstem upstream of Cohoke Millpond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform

Not supporting of the Recreation Use based on a fecal coliform violation rate of 4/30 at the Route 626 bridge (8-CMC005.16).

IMPAIRMENT SOURCE: Unknown

The source of the fecal coliform violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: Harrison Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F14R-02

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.59 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Upstream of pond at Elsing Green

RIVER MILE:

LATITUDE: **LONGITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Nearest downstream tributary

RIVER MILE:

LATITUDE: **LONGITUDE:**

Upstream of pond at Elsing Green downstream to nearest tributaries

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use based on a pH violation rate of 2/2 at the Route 632 bridge (8-HSN002.12).

IMPAIRMENT SOURCE: Unknown

The source of the pH violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William

STREAM NAME: UT to Cohoke Mill Creek

HYDROLOGIC UNIT: 02080106

TMDL ID: VAP-F14R-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 2.2 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 2.2

LATITUDE: 37.61240 **LONGITUDE:** -76.92120

DOWNSTREAM LIMIT:

DESCRIPTION: Cohoke Millpond

RIVER MILE: 0.00

LATITUDE: 37.59060 **LONGITUDE:** -76.93610

Mainstem upstream of Cohoke Millpond

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use based on a pH violation rate of 2/2 at 8-XDM000.50.

IMPAIRMENT SOURCE: Unknown

The source of the pH violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King William, King and Queen

STREAM NAME: Mattaponi River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F23E-03

ASSESSMENT CATEGORY: 5A, 5C

SEGMENT SIZE: 6.87 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit near Aylett

RIVER MILE: 39.25

LATITUDE: 37.74740 **LONGITUDE:** -77.07960

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at York River

RIVER MILE: 0.00

LATITUDE: 37.52410 **LONGITUDE:** -76.78520

The tidal portion of the Mattaponi River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Wildlife Use - Not Supporting

IMPAIRMENT CAUSE: Nutrients/Eutrophication Biological Indicators, chloride, pH, Estuarine bioassessments

The Mattaponi River from the tidal limit near Aylett downstream to Garnetts Creek (1.96 sq. mi.) was assessed in 1998 as impaired of the Aquatic Life Use due to pH violations. During the 2004 cycle, the violation rate is 15/116 at the Route 629 bridge (8-MPN029.08) and 6/48 at the Route 360 bridge (8-MPN039.10.)

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This includes the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing is based solely on the EPA overlist, the impairment is considered Nutrients/Eutrophication Biological Indicators.

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) is assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. The chloride TMDL is due in 2016.

The mesohaline portion of the York River, which includes the downstream portion of the Mattaponi River (0.82 sq. mi.), is impaired for the Aquatic Life use in 2004 due to the results of the Chesapeake Bay Benthic Index of Biological Integrity study.

IMPAIRMENT SOURCE: NPS/PS, natural conditions, Unknown

Natural conditions are suspected in the pH violations.

The source of the Nutrients/Eutrophication Biological Indicator impairment (EPA) is considered unknown.

The chloride violations are attributed to natural salinity.

Fact Sheets for Category 5 Waters

The source of the benthic impairment is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen, King William

STREAM NAME: Mattaponi River

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F23R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 4.72 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Herring Creek

RIVER MILE: 43.48

LATITUDE: 37.80860 **LONGITUDE:** -77.12070

DOWNSTREAM LIMIT:

DESCRIPTION: Tidal limit at Aylett

RIVER MILE: 39.25

LATITUDE: 37.74740 **LONGITUDE:** -77.07960

Free flowing Mattaponi from watershed boundary to tidal limit.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Not Supporting

IMPAIRMENT CAUSE: Fish Tissue - benzo(k)fluoranthene

The segment is considered not supporting of the Fish Consumption Use because in 1996 sampling the screening value (SV) for benzo(k)fluoranthene was exceeded in 3 sp.

In addition, the SV for benzo(b)fluoranthene was exceeded in 1 sp., and the SV for arsenic was exceeded in 2 sp. during the 1996 sampling. These parameters are not impairing and are listed as observed effects.

In the 1998 cycle, the segment was considered threatened because the screening value for PCBs in fish tissue at 8-MPN041.41 was exceeded in 1 sp. In 1996 was acceptable, therefore PCBs was removed as an observed effect.

The segment length was revised during the 2002 cycle because the location of the tidal limit was corrected.

IMPAIRMENT SOURCE: Unknown

Source of chemicals in fish tissue is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Dickeys Swamp, Dogwood Fork, Garnetts Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F23R-02

ASSESSMENT CATEGORY: 5C

SEGMENT SIZE: 16.46 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 11.18

LATITUDE: 37.80210 **LONGITUDE:** -77.05280

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.72550 **LONGITUDE:** -76.96720

Dickeys Swamp, Dogwood Fork, and an unnamed trib to Garnetts Creek in their entireties.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

IMPAIRMENT SOURCE: Natural Conditions

The source of the dissolved oxygen impairments is considered unknown, but is suspected to be attributable to natural conditions.

Targeted monitoring to identify wetlands is recommended.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Walkerton Branch

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F23R-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.95 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE:

LATITUDE: **LONGITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Walkerton Millpond

RIVER MILE:

LATITUDE: 37.73610 **LONGITUDE:** -77.03010

Watershed upstream of Walkerton Millpond

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use goal based on a pH violation rate of 2/2 at Route 636 (8-WKN003.16).

IMPAIRMENT SOURCE: Unknown

The source of the pH violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Garnetts Creek

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F23R-04

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 3.12 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Dickeys Swamp

RIVER MILE: 3.12

LATITUDE: 37.72530 **LONGITUDE:** -76.96730

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 37.69110 **LONGITUDE:** -76.95830

Dickeys Swamp downstream to mouth at Mattaponi River

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: pH

Not supporting of the Aquatic Life Use goal based on a pH violation rate of 2/10 at Route 633 (8-GNT001.54).

IMPAIRMENT SOURCE: Unknown

The source of the pH violations is considered unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Tastine Swamp and Little Tastine Swamp

HYDROLOGIC UNIT: 02080105

TMDL ID: VAP-F25R-01

ASSESSMENT CATEGORY: 5A,5C

SEGMENT SIZE: 6.02 - Miles

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 10.22

LATITUDE: 37.58870 **LONGITUDE:** -76.75460

DOWNSTREAM LIMIT:

DESCRIPTION: Corbins Pond

RIVER MILE: 4.2

LATITUDE: 37.65760 **LONGITUDE:** -76.76800

From the headwaters of Little Tastine Swamp to Corbins Pond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen, Fecal Coliform

Tastine Swamp from the Route 611 bridge downstream to Corbins Pond was initially assessed in 1998 as fully supporting but threatened of the Recreation and Aquatic Life use goals.

During the year 2002 cycle the segment was downgraded and extended to incorporate Little Tastine Swamp.

In the 2004 cycle, the segment continues to be impaired of both goals based on dissolved oxygen and fecal coliform violation rates of 3/20 at 8-TST001.81 (Route 611 bridge).

IMPAIRMENT SOURCE: Natural Conditions, Unknown

DO violation suspected to be caused by natural conditions.

Source of fecal coliform violations is considered unknown

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester, James City, King and Queen, King William, New Kent, York

STREAM NAME: York River Mainstem (Upper & Lower)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 53.69 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: York River mainstem waters from start of F26E (at West Point).

RIVER MILE: 33.48

LATITUDE: 37.52590 **LONGITUDE:** -76.79420

DOWNSTREAM LIMIT:

DESCRIPTION: York River mainstem waters to downstream terminus of segment F27E (line across mouth of York R.).

RIVER MILE: 0.00

LATITUDE: 37.24550 **LONGITUDE:** -76.38840

York River mainstem waters from start of F26E (at West Point) downstream to terminus of segment F27E (line across mouth of York R.).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: EPA Overlisting (General Standards), General Standard (Benthic)

EPA 1998 303d OVERLISTING is the basis to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.The cause of the nutrient designation is unknown.DEQ's addition of turbidity as an impairment cause is based on the best scientific information available since the EPA overlisted this segment in 1999 for nonattainment of aquatic life use due to nutrients.Benthic BIBI probabilistic station surveys (VERSAR 2002) in the CBP segment YRKMHa & YRKPHa are the basis to assess this segment as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report.

The cause of the lower benthic diversity designation is unknown.

IMPAIRMENT SOURCE: Unknown, Unknown

EPA OVERLISTING on 1998 303d for the mainstem York River. The specific source of the low benthic diversity is currently unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Williamsburg, York

STREAM NAME: Queen Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 0.13 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the estuarine/riverine transition portion of creek.

RIVER MILE: 5.62

LATITUDE: 37.30170 **LONGITUDE:** -76.61390

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at mouth of creek, confluence with York River.

RIVER MILE: 0.00

LATITUDE: 37.30220 **LONGITUDE:** -76.70080

Segment extends from start of estuarine portion to mouth.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen, Fecal Coliform

Sufficient exceedances of Virginia's water quality standard for dissolved oxygen and Fecal Coliform bacteria were recorded at DEQ's ambient water quality monitoring station on Queen Cr. to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Goal and not supporting of the Clean Water Act's Recreation Use Support Goal for the 2002 305(b) report. The cause of the dissolved oxygen standard violation is unknown. The cause of the Fecal Coliform bacteria standard violation is unknown.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of the Aquatic Life Use impairment is unknown. The source of the Swimming Use impairment is unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: Adams Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-12

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.12 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 1.89

LATITUDE: 37.27521 **LONGITUDE:** -76.58440

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27533 **LONGITUDE:** -76.58451

VDH-DSS shellfish harvesting condemnation # 128B,Poropotank River and Adams Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: Jones Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-13

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.07 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 1.52

LATITUDE: 37.35833 **LONGITUDE:** -76.62222

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.36667 **LONGITUDE:** -76.60833

VDH-DSS shellfish harvesting condemnation # 115, York River:Jones and Sandy Creeks

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester, King and Queen

STREAM NAME: Poropotank River & Morris Bay

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-14

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.48 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 3.41

LATITUDE: 37.27514 **LONGITUDE:** -76.58431

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27524 **LONGITUDE:** -76.58442

VDH-DSS shellfish harvesting condemnation # 128A,Poropotank River and Adams Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: York River: Aberdeen Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-15

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.07 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 1.7

LATITUDE: 37.35833 **LONGITUDE:** -76.59583

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.36667 **LONGITUDE:** -76.58333

VDH-DSS shellfish harvesting condemnation number 78, located in York River: Aberdeen Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Williamsburg, York

STREAM NAME: York River: Queen Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-16

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.13 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 3

LATITUDE: 37.30000 **LONGITUDE:** -76.61667

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.30000 **LONGITUDE:** -76.66250

VDH-DSS shellfish harvesting condemnation #35, located in York River, Queen Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: James City, York

STREAM NAME: York River: Skimino Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-17

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.07 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 3.2

LATITUDE: 37.36944 **LONGITUDE:** -76.67222

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.36583 **LONGITUDE:** -76.70417

VDH-DSS shellfish harvesting condemnation number 87, located in York River: Skimino Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: James City

STREAM NAME: York River: Taskinas Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-18

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.02 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 1.1

LATITUDE: 37.41667 **LONGITUDE:** -76.71111

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.40000 **LONGITUDE:** -76.72500

VDH-DSS shellfish harvesting condemnation # 166, York River: Taskinas Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: James City, New Kent

STREAM NAME: York River: Ware Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-19

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.1 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 4.9

LATITUDE: 37.45833 **LONGITUDE:** -76.75417

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.43333 **LONGITUDE:** -76.77917

VDH-DSS shellfish harvesting condemnation number 73, located in York River: Ware Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen, King William

STREAM NAME: York River & tributaries (Upper)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-20

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 4.88 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 2.6

LATITUDE: 37.52540 **LONGITUDE:** -76.79320

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.47340 **LONGITUDE:** -76.74420

VDH-DSS shellfish harvesting condemnation #4-Upper York River (to Mattaponi & Pamunkey Rs) #4

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Bakers Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-21

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.04 - Sq. Mi.

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.8

LATITUDE: 37.52540 **LONGITUDE:** -76.79320

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.47340 **LONGITUDE:** -76.74420

VDH-DSS shellfish harvesting condemnation #4A (portion) -Upper York River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: King and Queen

STREAM NAME: Hockley Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26E-22

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.04 - Sq. Mi.

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.6

LATITUDE: 37.52540 **LONGITUDE:** -76.79320

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.47340 **LONGITUDE:** -76.74420

VDH-DSS shellfish harvesting condemnation #4A (portion) -Upper York River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: Carter Creek (York Co)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F26R-01

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 1.04 - Miles

INITIAL LISTING: 2004 **TMDL SCHEDULE:** 2016

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the confluence of an unnamed tributary with Carter Creek (northwest of Barlow Rd.).

RIVER MILE: 4.28

LATITUDE: 37.35295 **LONGITUDE:** -76.71634

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at riverine/estuarine transition portion of creek.

RIVER MILE: 3.24

LATITUDE: 37.33879 **LONGITUDE:** -76.68635

Segment begins at confluence of unnamed tributary with creek (northwest of Barlow Rd.) and ends downstream at the riverine/estuarine transition portion of creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting, Recreation Use - Not Supporting

IMPAIRMENT CAUSE: General Standard (Benthic), Fecal Coliform

Benthic biological monitoring at station 8-CTC003.78 (located at State Route 604) indicated the stream's benthic community is moderately impaired. As a result, DEQ's General Standard (VR680-21-01.2) is not met for the protection of benthic aquatic life and this segment is assessed as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report. Sufficient exceedances of Virginia's water quality standard for Fecal Coliform bacteria were recorded at DEQ's biological water quality monitoring station (2/3) on Carter Cr. to assess this segment as not supporting of the Clean Water Act's Recreation Use Support Goal for the 2004 305(b) report. The cause of the Fecal Coliform bacteria standard and General Standard (VR680-21-01.2) exceedances are unknown.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of the Aquatic Life Use impairment is unknown. The source of the Swimming Use impairment is unknown .

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester, York

STREAM NAME: York River (Lower mainstem bottom layer)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-03

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 13.56 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins upstream of Coleman Bridge (line across from Roosevelt Pond north to Mumfort Island

RIVER MILE: 12.90

LATITUDE: 37.31100 **LONGITUDE:** -76.59760

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at downstream terminus of segment F27E (line across mouth of York R.).

RIVER MILE: 0.00

LATITUDE: 37.24550 **LONGITUDE:** -76.38840

Segment begins upstream of Coleman Bridge (line across from Roosevelt Pond north to Mumfort Islands) and extends downstream to terminus of segment F27E (line across mouth of York R.).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Dissolved Oxygen

Sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation is attributed to naturally occurring conditions in bottom waters of deep estuarine trenches.

IMPAIRMENT SOURCE: Unknown

The source of the low dissolved oxygen impairment in bottom waters is attributed to naturally occurring low dissolved oxygen conditions in bottom waters of deep estuarine trenches.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: King Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-05

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 0.03 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the estuarine/riverine transition.

RIVER MILE: 4.96

LATITUDE: 37.26960 **LONGITUDE:** -76.61030

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends downstream 0.50 mi. from station at Colonial Parkway crossing.

RIVER MILE: 0.50

LATITUDE: 37.27600 **LONGITUDE:** -76.60190

Segment begins at the estuarine/riverine transition and ends downstream 0.50 mi. from station at Colonial Parkway crossing.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Recreation Use - Not Supporting, Aquatic Life Use - Not Supporting

IMPAIRMENT CAUSE: Fecal Coliform, Dissolved Oxygen

Sufficient exceedances of Virginia's water quality standards for Fecal Coliform Bacteria and Dissolved Oxygen were recorded at DEQ's ambient water quality monitoring station on King Cr. to assess this segment as not supporting of the Clean Water Act's Recreation Use and Aquatic Life Use Support Goals for the 2002 305(b) report. The cause of the standard exceedances is unknown.

IMPAIRMENT SOURCE: Unknown, Unknown

The source of the Swimming Use impairment and Aquatic Life Use impairment are unknown.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: King Creek (Mouth)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-06

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 0.21 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at RM 0.50 upstream of mouth of King Creek.

RIVER MILE: 0.50

LATITUDE: 37.27910 **LONGITUDE:** -76.58910

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at mouth of King Creek.

RIVER MILE: 0.00

LATITUDE: 37.27980 **LONGITUDE:** -76.58590

Segment extends 0.5 mi upstream of mouth and extends downstream to confluence with York River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Not Supporting

IMPAIRMENT CAUSE: Fish Tissue - PCBs

Sufficient exceedance of criterion based fish tissue value for PCBs in 4 species of fish sampled in 2000 at monitoring station (8-KNG000.18) to assess this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.

The cause of the elevated fish tissue levels of PCBs is unknown.

IMPAIRMENT SOURCE: Unknown

The King Creek monitoring station is in the area of the confluence with the York River. The York mainstem in this area has also yielded fish tissue with PCBs contamination. The land use in the watershed is mixed military installation, forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding area. The specific source of the elevated fish tissue toxic concentration is currently unknown, but may be related to the sediment PCBs located in Queen Creek sediments.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: Wormley Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-07

ASSESSMENT CATEGORY: 5A

SEGMENT SIZE: 0.26 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL SCHEDULE:** 2014

UPSTREAM LIMIT:

DESCRIPTION: Segment begins 0.85 miles upstream from mouth of Wormley Creek.

RIVER MILE: 0.85

LATITUDE: 37.21290 **LONGITUDE:** -76.46890

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at mouth of Wormley Creek.

RIVER MILE: 0.00

LATITUDE: 37.21610 **LONGITUDE:** -76.46940

Segment begins 0.85 miles upstream from mouth of Wormley Creek and ends at the mouth of Wormley Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Not Supporting

IMPAIRMENT CAUSE: Fish Tissue - PCBs

Data collected for PCBs in fish tissue @ 8-WOR000.35 indicated sufficient exceedance of the criterion based tissue values is used to evaluate this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. Additional monitoring for confirmatory data is needed.

The cause of the elevated PCBs concentrations in fish tissue is currently unknown.

IMPAIRMENT SOURCE: Unknown

The Wormley Creek monitoring station is within the migratory area of Queen Creek, which contains sediment PCBs. The land use in the watershed is mixed military installation, forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding area. The specific source of the elevated fish tissue toxic concentration is currently unknown, but may be related to the sediment PCBs located in Queen Creek sediments.

Additional monitoring is necessary to confirm impairment.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: Wormley Creek Area Only

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-10

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.38 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 2.3

LATITUDE: 37.23333 **LONGITUDE:** -76.42917

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.23194 **LONGITUDE:** -76.47500

VDH-DSS shellfish harvesting condemnation #6A-York River and Wormley Cr

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester, York

STREAM NAME: York River Area Only

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-11

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 2.75 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 2.65

LATITUDE: 37.23333 **LONGITUDE:** -76.42917

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.23194 **LONGITUDE:** -76.47500

VDH-DSS shellfish harvesting condemnation # 6A, York River (Area of refinery not due to outfall).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: Felgates Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-12

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.2 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27500 **LONGITUDE:** -76.58333

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27222 **LONGITUDE:** -76.62500

VDH-DSS shellfish harvesting condemnation # 134B, located in York River: King & Felgates Creeks

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: King Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-13

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.03 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27500 **LONGITUDE:** -76.58333

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27222 **LONGITUDE:** -76.62500

VDH-DSS shellfish harvesting condemnation # 134A, York River:King & Felgates Creeks

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: Perrin River (Upper)

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-14

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.06 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.26944 **LONGITUDE:** -76.42500

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27500 **LONGITUDE:** -76.43611

VDH-DSS shellfish harvesting condemnation number 81, located in Perrin River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: Sarah Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-15

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.49 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 3.4

LATITUDE: 37.25278 **LONGITUDE:** -76.48333

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.27500 **LONGITUDE:** -76.48333

VDH-DSS shellfish harvesting condemnation number # 52, located in Sarah Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: Timberneck Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-16

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.22 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.08333 **LONGITUDE:** -76.28567

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.08333 **LONGITUDE:** -76.39167

VDH-DSS shellfish harvesting condemnation # 3, located in Timberneck Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: York River: Cedarbush Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-17

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.03 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.30833 **LONGITUDE:** -76.55000

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.32500 **LONGITUDE:** -76.55000

VDH-DSS shellfish harvesting condemnation # 108,York River: Cedarbush Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 1998 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: Gloucester

STREAM NAME: York River:N Shore, Carter Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-18

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.09 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.31667 **LONGITUDE:** -76.56667

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.35000 **LONGITUDE:** -76.55417

VDH-DSS shellfish harvesting condemnation # 107, York River - North Shore: Carter Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 1998 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.

Fact Sheets for Category 5 Waters

RIVER BASIN: York River Basin

CITY/COUNTY: York

STREAM NAME: York River: Indian Field Creek

HYDROLOGIC UNIT: 02080107

TMDL ID: VAT-F27E-19

ASSESSMENT CATEGORY: 5B

SEGMENT SIZE: 0.12 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL SCHEDULE:** 2010

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.25870 **LONGITUDE:** -76.56240

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.00

LATITUDE: 37.26780 **LONGITUDE:** -76.55660

VDH-DSS shellfish harvesting condemnation # 130, York River: Indian Field Creek

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Not Supporting

IMPAIRMENT CAUSE: VDH Shellfish Restriction

The shellfish harvesting condemntion imposed by the VDH-Division of Shellfish Sanitation is the basis to assess this segment as minimally impaired for the Shellfishing Use Support Goal. Best Professional Judgement is used to evaluate this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the minimal impairment is based on the ability to relay the resource to cleaner waters for purging and subsequent recovery of the shellfish resource.

The cause of the shellfishing restriction is the potential of contaminated shellfish resource.

IMPAIRMENT SOURCE: Unknown

The shellfish harvesting condemnation is issued by the VDH - Division of Shellfish Sanitation based on their bacteriological monitoring, assessment of the potential for shellfish contamination, and subsequent determination of potential threat to human health resulting from contaminated shellfish consumption. The specific source causing the shellfish harvesting restriction is unknown. VDH - Division of Shellfish Sanitation conducts periodic shoreline survey assessments to implement corrective actions.